

SEQUENCE LISTING

```
<110> Ptashne, et al.,
<120> Transcriptional Activation System, Activators, and Uses
      Therefor
<130> 0342941-0065
<140> 09-943,944
<141> 2001-08-31
<160> 238
<170> PatentIn Ver. 2.1
<210> 1
<211> 11
<212> PRT
<213> Yeast
<400> 1
Trp Thr Asp Gln Thr Ala Tyr Asn Ala Phe Gly
<210> 2
<211> 18
<212> DNA
<213> Artifical Sequence
<400> 2
cccctcttnn cnnccctc
                                                                    18
<210> 3
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 3
attccgccac cgtatttc
                                                                    18
<210> 4
<211> 6
<212> PRT
<213> Artificial Sequence
```

```
<400> 4
Ile Pro Pro Pro Tyr Phe
 1
<210> 5
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 5
ctgcccgggt ctttcttc
                                                                    18
<210> 6
<211> 6
<212> PRT
<213> Artifical Sequence
<400> 6
Leu Pro Gly Cys Phe Phe
  1
<210> 7
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 7
cagctccccc cctggtta
                                                                     18
<210> 8
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 8
Gln Leu Pro Pro Trp Leu
  1
                  5
<210> 9
<211> 18
<212> DNA
```

<400> 9	
tactggccct cccccttc	18
<210> 10	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
value in the contract of the c	
<400> 10	
Tyr Trp Pro Ser Pro Phe	
1 5	
2010> 11	
<210> 11	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<400> 11	
gagttcccct atgacttg	18
<210> 12	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
<400> 12	
Glu Phe Pro Tyr Asp Leu	
1 5	
<210> 13	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
•	
<400> 13	
accgccgaat tccccctc	18
<210> 14	
<211> 6	
<212> PRT	

```
<400> 14
Thr Ala Glu Phe Pro Leu
  1
                  5
<210> 15
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 15
caatttctag acgcactt
                                                                    18
<210> 16
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 16
Gln Phe Leu Asp Ala Leu
  1
                  5
<210> 17
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 17
acattccctg accccttc
                                                                    18
<210> 18
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 18
Thr Phe Pro Asp Pro Phe
 1
<210> 19
<211> 18
<212> DNA
```

```
<400> 19
atcggcccan cncttttc
                                                                   18
<210> 20
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 20
ttggattttt cctacgtc
                                                                   18
<210> 21
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 21
Leu Asp Phe Ser Tyr Val
  1
<210> 22
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 22
ccccaccac cctggccc
                                                                   18
<210> 23
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 23
Pro Pro Pro Trp Pro
 1
                  5
<210> 24
<211> 18
<212> DNA
<213> Artificial Sequence
```

<400> 24

<210> 25
<211> 3
<212> PRT
<213> Artificial Sequence
<400> 25
Leu Phe Glu
1
<210> 26
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 26
ctgctcgaca tacctttc
<210> 27
<211> 5
<212> PRT
<213> Artificial Sequence
<400> 27
Leu Leu Asp Thr Phe
1 5
<210> 28
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 28
ctccccgacg cctttctc
<210> 29
<211> 6
<212> PRT

Leu Pro Asp Ala Phe Leu

<400> 29

ctctttgaat gaggaacc

18

18

<210> 30 <211> 18 <212> DNA <213> Artificial Sequence <400> 30 ctcttccccg acctcaac <210> 31 <211> 6 <212> PRT <213> Artificial Sequence <400> 31 Leu Phe Pro Asp Leu Asn 1 5 <210> 32 <211> 18 <212> DNA <213> Artificial Sequence <400> 32 tcttggtttg atgtcgaa <210> 33 <211> 6 <212> PRT <213> Artificial Sequence <400> 33 Ser Trp Phe Asp Val Glu 1 5

<210> 34 <211> 18 <212> DNA

<213> Artificial Sequence

<400> 34 cttgaacctc cgccctgg

18

18

```
<210> 35
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 35
Leu Glu Pro Pro Pro Trp
  1
<210> 36
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 36
cagctacctg atctgttc
                                                                    18
<210> 37
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 37
Gln Leu Pro Asp Leu Phe
  1
<210> 38
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 38
cctctccag acctcttc
                                                                    18
<210> 39
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 39
Pro Leu Pro Asp Leu Phe
```

<210> 40	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<400> 40	
ttcgaattcg atgatatc	18
<210> 41	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
V213/ AICITICIAL Sequence	
<400> 41	
	10
acctttttcg ataccccc	18
<210> 42	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
4400 40	
<400> 42	1.0
accttttcg ataccccc	18
2010: 40	
<210> 43	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
<400> 43	
Thr Phe Phe Asp Thr Pro	
1 5	
<210> 44	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
-	
<400> 44	
caatacgatc tattcgat	18

```
<210> 45
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 45
Gln Tyr Asp Leu Phe Asp
 1
<210> 46
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 46
                                                                    18
ctaccggact taattctc
<210> 47
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 47
Leu Pro Asp Leu Ile Leu
<210> 48
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 48
                                                                    18
cccccctgg atccatgg
<210> 49
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 49
Pro Pro Leu Asp Pro Trp
```

```
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 50
caatacgatc tattcgat
                                                                     18
<210> 51
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 51
Gln Tyr Asp Leu Phe Asp
<210> 52
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 52
accttgtgac gcgacagc
                                                                     18
<210> 53
<211> 2
<212> PRT
<213> Artificial Sequence
<400> 53
Thr Leu
  1
<210> 54
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 54
ctaccagact tcgatcca
                                                                     18
```

<210> 50

<210> 55

```
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 55
Leu Pro Asp Phe Asp Pro
  1
<210> 56
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 56
ctaatcccat actccctg
                                                                    18
<210> 57
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 57
Leu Phe Pro Tyr Ser Leu
  1
                  5
<210> 58
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 58
tttcctgacc tcttcccc
                                                                    18
<210> 59
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 59
Phe Pro Asp Leu Phe Pro
 1
```

<210> 60

```
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 60
cctaaccct tcccactg
                                                                    18
<210> 61
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 61
Pro Asn Pro Phe Pro Leu
<210> 62
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 62
                                                                    18
ttctagaaca caccccg
<210> 63
<211> 1
<212> PRT
<213> Artificial Sequence
<400> 63
Phe
  1
<210> 64
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 64
cccccccc aatatttc
                                                                    18
<210> 65
```

```
<212> PRT
<213> Artificial Sequence
<400> 65
Pro Pro Pro Gln Tyr Phe
 1
                  5
<210> 66
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 66
                                                                   18
gaggacaccc cccctgg
<210> 67
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 67
Glu Asp Thr Pro Pro Trp
                  5
  1
<210> 68
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 68
ttccccccc ccccattc
                                                                   18
<210> 69
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 69
Phe Pro Pro Pro Phe
  1
                  5
<210> 70
```

```
<212> DNA
<213> Artificial Sequence
<400> 70
ttcccccat tcaaccaa
                                                                    18
<210> 71
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 71
Phe Pro Pro Phe Asn Gln
 1
                  5
<210> 72
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 72
ccctgttct gacacgga
                                                                    18
<210> 73
<211> 3
<212> PRT
<213> Artificial Sequence
<400> 73
Pro Leu Phe
 1
<210> 74
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 74
accggtccac cagagcta
                                                                    18
<210> 75
<211> 6
```

<212> PRT

```
<213> Artificial Sequence
<400> 75
Thr Gly Pro Pro Glu Leu
<210> 76
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 76
ctaatcccat actccctg
                                                                    18
<210> 77
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 77
Leu Ile Pro Tyr Ser Leu
 1
<210> 78
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 78
accttccctt actcactg
                                                                    18
<210> 79
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 79
Thr Phe Pro Tyr Ser Leu
 1
                  5
<210> 80
```

<211> 18 <212> DNA

<400> 80	
	10
ggcagcttcg aactcctc	18
<210> 81	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
<400> 81	
Gly Ser Phe Glu Leu Leu	
1 5	
<210> 82	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<400> 82	
ctggaatacc ccaccacc	18
ctygaatace teaceace	10
<210 02	
<210> 83	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
<400> 83	
Leu Glu Tyr Pro Thr Thr	
1 5	
<210> 84	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
- -	
<400> 84	
aattttgatg acctactc	18
	_0
<210> 85	
<211> 6	
<212> PRT	

```
<400> 85
Asn Phe Asp Asp Leu Leu
  1
                  5
<210> 86
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 86
ctggacgtat tttcacac
                                                                     18
<210> 87
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 87
Leu Asp Val Phe Ser His
  1
                  5
<210> 88
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 88
cagctacctg atctgttc
                                                                     18
<210> 89
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 89
Gln Leu Pro Asp Leu Phe
  1
                   5
<210> 90
```

<211> 19 <212> DNA

<400> 90	
caccccccc cctcccatt	19
<210> 91	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
•	
<400> 91	
His Pro Pro Pro Ile	
1 5	
<210> 92	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<400> 92	
	1.0
cccctgttct gactcgga	18
(010) 02	
<210> 93	
<211> 3	
<212> PRT	
<213> Artificial Sequence	
<400> 93	
Pro Leu Phe	
1	
<210> 94	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<400> 94	
ctgcccgggt gtttcttc	18
<210> 95	
<211> 6	
<212> PRT	

```
<400> 95
Leu Pro Gly Cys Phe Phe
  1
<210> 96
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 96
caatacgatc tattcgat
                                                                    18
<210> 97
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 97
Gln Tyr Asp Leu Phe Asp
  1
<210> 98
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 98
gctctcccgc cgtacctc
                                                                    18
<210> 99
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 99
Ala Leu Pro Pro Tyr Leu
 1
                  5
<210> 100
<211> 18
<212> DNA
```

<400> 100	
ttcctccct cccttccc	18
<210> 101	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
<400> 101	
Phe Leu Pro Ser Leu Pro	
1 5	
<210> 102	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<400> 102	
atccctctcc tctgtctc	18
<210> 103	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
<400> 103	
Ile Pro Leu Cys Leu	
1 5	
<210> 104	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<400> 104	
atgetecete cetacate	18
(010) 105	
<210> 105	
<211> 6	
<212> PRT	
<213> Artificial Sequence	

<400> 105

```
Met Leu Pro Pro Tyr Ile
 1
<210> 106
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 106
ccccctaca tatggcca
                                                                    18
<210> 107
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 107
Pro Pro Tyr Ile Trp Pro
 1
                  5
<210> 108
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 108
gcgctatggt agctaccc
                                                                    18
<210> 109
<211> 3
<212> PRT
<213> Artificial Sequence
<400> 109
Ala Leu Trp
  1
<210> 110
<211> 18
<212> DNA
<213> Artificial Sequence
```

<400> 110

gacctcaata ttttctag	18
<210> 111	
<211> 5	
<212> PRT	
<213> Artificial Sequence	
<400> 111	
Asp Leu Asn Ile Phe	
1 5	
<210> 112	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<400> 112	
ctacccatga cnccgttc	18
<210> 113	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
<400> 113	
Leu Pro Met Thr Pro Phe	
1 5	
<210> 114	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
\213> Artificial Sequence	
<400> 114	
tacccccgc cgcccttt	18
<210> 115	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
<400> 115	
Tyr Pro Pro Pro Phe	

<210> 116 <211> 18 <212> DNA <213> Artificial Sequence <400> 116 nnncccgtag nncnctgg <210> 117 <211> 18 <212> DNA <213> Artificial Sequence <400> 117 ccccttccnc cttttctt <210> 118 <211> 6 <212> PRT <213> Artificial Sequence <400> 118 Pro Leu Pro Pro Phe Leu 1 <210> 119 <211> 18 <212> DNA <213> Artificial Sequence <400> 119

18

18

18

1

5

<210> 120 <211> 6 <212> PRT <213> Artificial Sequence <400> 120 Leu Phe Leu Pro Pro Thr 1 5

ctcccacca tgcccctc

```
<210> 121
  <211> 18
  <212> DNA
  <213> Artificial Sequence
  <400> 121
  ctcttcctac cacccacc
                                                                      18
  <210> 122
  <211> 6
  <212> PRT
  <213> Artificial Sequence
  <400> 122
  Leu Phe Leu Pro Pro Thr
    1
  <210> 123
  <211> 18
  <212> DNA
  <213> Artificial Sequence
  <400> 123
  accgccgaat tccccctc
                                                                      18
  <210> 124
. <211> 6
  <212> PRT
  <213> Artificial Sequence
  <400> 124
  Thr Ala Glu Phe Pro Leu
    1
  <210> 125
  <211> 18
  <212> DNA
  <213> Artificial Sequence
  <400> 125
```

accgatttcc ttctgctg

```
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 126
Thr Asp Phe Leu Leu Leu
<210> 127
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 127
                                                                    18
ggagaatatt tccccttc
<210> 128
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 128
Gly Glu Tyr Phe Pro Phe
 1
                  5
<210> 129
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 129
                                                                    18
tttatagatc ccctctc
<210> 130
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 130
Phe Ile Asp Pro Pro Leu
```

<210> 126

1

```
<210> 131
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 131
ctaatcccat actccctg
                                                                    18
<210> 132
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 132
Leu Ile Pro Tyr Ser Leu
  1
<210> 133
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 133
caatacgatc tattcgat
                                                                    18
<210> 134
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 134
Gln Tyr Asp Leu Phe Asp
 1
                  5
<210> 135
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 135
```

ttacctcccc cctggctt

<210> 136	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
<400> 136	
Leu Pro Pro Trp Leu	
1 5	
<210> 137	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<400> 137	
ctctggccac ctgccgta	18
<210> 138	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
<400> 120	
<400> 138	
Val Trp Pro Pro Ala Val 1 5	
ı J	
<210> 139	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<400> 139	
ccaacaaact cctactga	18
<210> 140	
<211> 5	
<212> PRT	
<213> Artificial Sequence	
<400> 140	
Pro Thr Asn Phe Tyr	

```
<210> 141
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 141
ctaatcccat acttcctg
                                                                    18
<210> 142
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 142
Leu Ile Pro Tyr Phe Leu
  1
                  5
<210> 143
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 143
atctgcgaga gtttcttt
                                                                    18
<210> 144
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 144
Ile Cys Glu Ser Phe Phe
  1
                  5
<210> 145
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 145
gcggacccgt ggctactc
                                                                    18
```

<210> 146

```
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 146
Ala Asp Pro Trp Leu Leu
  1
<210> 147
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 147
gcgcagtacc ctttcttc
                                                                     18
<210> 148
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 148
Ala Gln Tyr Pro Phe Phe
 1
                   5
<210> 149
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 149
cctccgtcat tcttcggc
                                                                     18
<210> 150
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 150
Pro Pro Ser Phe Phe Gly
                  5
```

<210> 151

<211> 18	
<212> DNA	
<213> Artificial Sequence	
<400> 151	
ctttccagcc ttcccttc	18
<210> 152	
<211> 6	
<212> PRT	
<213> Artificial Sequence	
version in the contract of the	
<400> 152	
Pro Ser Ser Leu Pro Phe	
1 5	
<210> 153	
<211> 18	
<212> DNA	
<213> Artificial Sequence	
<400> 153	
	18
gacccaccat ggtacctt	18
gacccaccat ggtacctt	18
<pre>gacccaccat ggtacctt <210> 154</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6 <212> PRT</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6 <212> PRT <213> Artificial Sequence</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6 <212> PRT <213> Artificial Sequence <400> 154</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6 <212> PRT <213> Artificial Sequence</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6 <212> PRT <213> Artificial Sequence <400> 154 Asp Pro Pro Trp Tyr Leu</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6 <212> PRT <213> Artificial Sequence <400> 154 Asp Pro Pro Trp Tyr Leu</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6 <212> PRT <213> Artificial Sequence <400> 154 Asp Pro Pro Trp Tyr Leu</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6 <212> PRT <213> Artificial Sequence <400> 154 Asp Pro Pro Trp Tyr Leu</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6 <212> PRT <213> Artificial Sequence <400> 154 Asp Pro Pro Trp Tyr Leu</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6 <212> PRT <213> Artificial Sequence <400> 154 Asp Pro Pro Trp Tyr Leu</pre>	18
<pre>gacccaccat ggtacctt <210> 154 <211> 6 <212> PRT <213> Artificial Sequence <400> 154 Asp Pro Pro Trp Tyr Leu</pre>	18
<pre> <210> 154 <211> 6 <212> PRT <213> Artificial Sequence <400> 154 Asp Pro Pro Trp Tyr Leu</pre>	18
<pre> <210> 154 <211> 6 <212> PRT <213> Artificial Sequence <400> 154 Asp Pro Pro Trp Tyr Leu</pre>	
<pre> <210> 154 <211> 6 <212> PRT <213> Artificial Sequence <400> 154 Asp Pro Pro Trp Tyr Leu</pre>	

```
<212> PRT
<213> Artificial Sequence
<400> 156
Leu Tyr
 1
<210> 157
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 157
cctatccccg gtttcact
                                                                   18
<210> 158
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 158
Pro Ile Pro Gly Phe Thr
  1
                  5
<210> 159
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 159
tttgacccct tgggcatc
                                                                    18
<210> 160
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 160
Phe Asp Pro Phe Gly Ile
 1
                  5
<210> 161
```

```
<212> DNA
<213> Artificial Sequence
<400> 161
cccccagtg tgaacctc
                                                                   18
<210> 162
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 162
Pro Pro Ser Val His Leu
1
                  5
<210> 163
<211> 18
<212> DNA
<213> Artificial Sequence
<400> 163
ccagacaacg tcctaccg
                                                                   18
<210> 164
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 164
Pro Asp Asn Val Leu Pro
 1
<210> 165
<211> 11
<212> PRT
<213> Yeast
<400> 165
Lys Ala Leu Leu Thr Gly Leu Phe Val Gln Asp
 1
                                     10
<210> 166
```

```
<212> DNA
<213> Artificial Sequence
<400> 166
taccttttac caacctgtat acct
                                                                    24
<210> 167
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 167
Tyr Leu Leu Pro Thr Cys Ile Pro
 1
                  5
<210> 168
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 168
ctacaagtcc acaacagcag atag
                                                                    24
<210> 169
<211> 7
<212> PRT
<213> Artificial Sequence
<400> 169
Leu Gln Val His Asn Ser Thr
  1
                  5
<210> 170
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 170
gttcttgact tcaccccttt cctc
                                                                    24
<210> 171
<211> 8
```

<212> PRT

```
<213> Artificial Sequence
<400> 171
Val Leu Asp Phe Thr Pro Phe Leu
<210> 172
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 172
                                                                    24
ccccttacct accccctcgc cgga
<210> 173
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 173
Pro Leu Thr Tyr Pro Leu Ala Gly
<210> 174
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 174
ctcctcgcct tttacgagat accg
                                                                    24
<210> 175
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 175
Leu Leu Ala Phe Tyr Glu Ile Pro
  1
                  5
<210> 176
<211> 24
```

<212> DNA

<213> Artificial Sequence	
<400> 176	
cccctgaca cctacatctt ctta	24
<210> 177	
<211> 8	
<212> PRT	
<213> Artificial Sequence	
<400> 177	
Pro Pro Asp Thr Tyr Ile Phe Phe 1 5	
<210> 178	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<400> 178	
caactcaact acccactcgc cata	24
<210> 179	
<211> 8	
<212> PRT <213> Artificial Sequence	
12137 ATCITICIAL Sequence	
<400> 179	
Gln Leu Asn Tyr Pro Leu Ala Ile	
1 5	
<210> 180	
<211> 24	
<212> DNA <213> Artificial Sequence	
VSION WICITICIAL Deduction	
<400> 180	
ctcgtactac cccagccgca actc	24
<210> 181	
<211> 8	
<212> PRT	

```
<400> 181
Leu Val Leu Pro Gln Pro Gln Leu
 1
                  5
<210> 182
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 182
ccttggtacc ctacgccgta tctg
                                                                    24
<210> 183
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 183
Pro Trp Tyr Pro Thr Pro Tyr Leu
  1
<210> 184
<211> 27
<212> DNA
<213> Artificial Sequence
<400> 184
tggctccgat cgttcagccc gtatctg
                                                                    27
<210> 185
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 185
Trp Leu Arg Ser Phe Ser Val Pro
  1
                  5
<210> 186
<211> 24
<212> DNA
```

<213> Artificial Sequence

<400> 186	
cttgaaccat cactatatat gata	24
cergadocae caceacae gaca	47
<210> 187	
<211> 8	
<212> PRT	
<213> Artificial Sequence	
<400> 187	
Leu Glu Pro Ser Leu Tyr Met Ile	
1 5	
<210> 188	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
	
<400> 188	
tgcatcttgt cccaccacgc tcct	24
typacottyt occaecacyc toot	23
<210> 189	
<211> 8	
<212> PRT	
<213> Artificial Sequence	
<400> 189	
Cys Ile Leu Ser His His Ala Pro	
1 5	
<210> 190	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<400> 190	
gacctcacat gctgtttttg cctc	24
	•
<210> 191	
<211> 8	
<212> PRT	

<213> Artificial Sequence

```
<400> 191
Asp Leu Thr Cys Cys Phe Cys Leu
 1
                  5
<210> 192
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 192
                                                                    24
ccgtttattg gcggccctta cgca
<210> 193
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 193
Pro Phe Ile Gly Gly Pro Tyr Ala
 1
                  5
<210> 194
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 194
tacctactac ctttccttcc gtac
                                                                    24
<210> 195
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 195
Tyr Leu Leu Pro Phe Leu Pro Tyr
 1
<210> 196
<211> 24
<212> DNA
```

<213> Artificial Sequence

<400> 196	
tacccctggt ttccagtccc ctta	24
<210> 197	
<211> 8	
<212> PRT	
<213> Artificial Sequence	
4400× 107	
<400> 197	
Tyr Pro Trp Phe Pro Val Pro Phe	
1 5	
<210> 198	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<400> 198	
tatttactac ctctcctctc cact	24
tatttattat tittettet tatt	24
2010 100	
<210> 199	
<211> 8	
<212> PRT	
<213> Artificial Sequence	
<400> 199	
Tyr Phe Leu Pro Leu Leu Ser Thr	
1 5	
<210> 200	
<211> 24	
<212> DNA	
<213> Artificial Sequence	
<400> 200	. .
ctctccattc aaccctattt tttt	24
<210> 201	
<211> 8	
<212> PRT	
<213> Artificial Sequence	
<400> 201	

```
Leu Ser Ile Gln Pro Tyr Phe Phe
 1
<210> 202
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 202
gccctattct acctcctcta aaag
                                                                    24
<210> 203
<211> 6
<212> PRT
<213> Artificial Sequence
<400> 203
Ala Leu Phe Tyr Leu Leu
  1
<210> 204
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 204
contggeect actatttnce gate
                                                                    24
<210> 205
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 205
Pro Trp Pro Tyr Tyr Phe Pro Ile
 1
                  5
<210> 206
<211> 24
<212> DNA
<213> Artificial Sequence
```

<400> 206 .

<210> 207 <211> 8 <212> PRT <213> Artificial Sequence <400> 207 Pro Ile Trp Gln Tyr Thr Ile Phe
1 5
<210> 208
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 208
ttatcccca ccttttgggc attc
333
<210> 209
<211> 8
<212> PRT

ccgatttggc aatataccat tttc

<210> 209
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 209
Phe Ser Pro Thr Phe Trp Ala Phe
1 5

24

24

24

<210> 210 <211> 24 <212> DNA <213> Artificial Sequence <400> 210 gacccccct acgcctatac tctg

gaccccccc acgcctatae tetg

<210> 211 <211> 8 <212> PRT <213> Artificial Sequence <400> 211 Phe Pro Pro Tyr Ala Tyr Thr Leu 1 5

<210> 212 <211> 24 <212> DNA <213> Artificial Sequence

<400> 212 cetgeactee tgttteeatt cate

<210> 213 <211> 8 <212> PRT <213> Artificial Sequence

<210> 214 <211> 24 <212> DNA <213> Artificial Sequence

<400> 214 ttcacctacg ctctccctt cccc

<210> 215 <211> 8 <212> PRT <213> Artificial Sequence <400> 215

Phe Thr Tyr Ala Leu Pro Phe Pro
1 5

<210> 216 <211> 24 <212> DNA <213> Artificial Sequence <400> 216 ctcttaccac tgcctctctt cctc

24

24

24

```
<210> 217
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 217
Leu Phe Pro Leu Pro Leu Phe Leu
                  5
<210> 218
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 218
                                                                    24
ctattcccct ggacatacca actt
<210> 219
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 219
Leu Phe Pro Trp Thr Tyr Gln Leu
  1
<210> 220
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 220
cttattatga actggcctac atat
                                                                    24
<210> 221
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 221
Leu Thr Met Asn Trp Pro Thr Tyr
```

5

1

```
<210> 222
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 222
tatattttcn cgctgagctt atca
                                                                    24
<210> 223
<211> 7
<212> PRT
<213> Artificial Sequence
<400> 223
Tyr Ile Phe Leu Ser Phe Ser
<210> 224
<211> 24
<212> DNA
<213> Artificial Sequence
<400> 224
ctaacaccc tcccctcatg gcta
                                                                    24
<210> 225
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 225
Leu Thr Pro Leu Pro Ser Trp Leu
 1
<210> 226
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 226
Leu Ile Cys Tyr Pro Leu Pro Thr
```

5

1

```
<210> 227
<211> 8
<212> PRT
<213> Artificial Sequence
<400> 227
Ile Pro Leu Tyr Leu Thr Cys Pro
 1
<210> 228
<211> 10
<212> PRT
<213> Artificial Sequence
<400> 228
Ala Leu Leu Thr Gly Leu Phe Val Gln Asp
                  5
                                     10
<210> 229
<211> 9
<212> PRT
<213> Yeast
<400> 229
Ala Leu Leu Thr Gly Leu Phe Val Gln
       5
<210> 230
<211> 9
<212> PRT
<213> Yeast
<400> 230
Ala Leu Leu Thr Gly Leu Phe Val Asp
  1
                  5
<210> 231
<211> 9
<212> PRT
<213> Yeast
```

<400> 231

```
Ala Leu Leu Thr Gly Leu Phe Gln Asp
 1
                 5
<210> 232
<211> 9
<212> PRT
<213> Yeast
<400> 232
Ala Leu Leu Thr Gly Leu Val Gln Asp
                  5
<210> 233
<211> 9
<212> PRT
<213> Yeast
<400> 233
Ala Leu Leu Thr Gly Phe Val Gln Asp
<210> 234
<211> 10
<212> PRT
<213> Yeast
<400> 234
Ala Leu Leu Thr Gly Leu Phe Val Gln Ala
 1
                  5
                                     10
<210> 235
<211> 10
<212> PRT
<213> Yeast
<400> 235
Ala Leu Leu Thr Gly Leu Phe Val Ala Asp
                  5
                                      10
<210> 236
<211> 10
<212> PRT
```

<213> Yeast

```
<400> 236
Ala Leu Leu Thr Gly Leu Phe Ala Gln Asp
 1
                  5
                                     10
<210> 237
<211> 10
<212> PRT
<213> Yeast
<400> 237
Ala Leu Leu Thr Gly Leu Ala Val Gln Asp
 1
                  5
<210> 238
<211> 13
<212> PRT
<213> Yeast
<400> 238
Leu Phe Val Gln Asp Tyr Leu Leu Pro Thr Cys Ile Pro
                  5
                                     10
```